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Shifting Device for a Motor Vehicle Transmission

SUB A1

Patent Claims:

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1. Shifting device for a motor vehicle transmission, comprising:

- a said selector lever (1) for selecting different shift positions (P, R, N, D, 3, 2, ...), which is mounted in a said housing (3) pivotably around at least one said axis (2),
- a said first locking member (4) and at least one said additional locking member (5), which block the movement of the said selector lever (1) in different shift positions,
- a said adjusting member (6), as well as
- a said locking element (7), which is present at the said selector lever (1) and which is engaged by one of the said locking members (4, 5) in the shift positions of the selector lever which are to be locked, as a function of preset parameters,

characterized in that

20 the said locking members (4, 5) are angle levers arranged on the said housing (3) pivotably around a said pivot axis (8, 9) each.

2. Shifting device in accordance with claim 1,

characterized in that

the said locking members (4, 5) designed as angle levers have two said arms (14, 15) each, which form an opening angle (α) between 0° and 180° with one another and in the connection section of which a said drag bearing (16) is present.

5 3. Shifting device in accordance with one of the above claims,

characterized in that

the said adjusting member (6) is coupled with the said locking members (4, 5).

4. Shifting device in accordance with one of the above claims,

characterized in that

on their side facing the said locking element (7), the said locking members (4, 5) have a said elevated engaging contour (10), which can be engaged with a said, approximately complementary recess (11) of the said locking element (7).

5. Shifting device in accordance with one of the above claims,

characterized in that

the said locking element (7) has said sliding surfaces (12, 13) to facilitate the engaging and disengaging movements of the said locking members (4, 5).

6. Shifting device in accordance with one of the above claims,

characterized in that

the said selector lever (1) has a said strap-shaped section (17), on the outer contour of which at least one said locking element (7) is fastened at least on one side.

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7. Shifting device in accordance with one of the above claims,

characterized in that

the said locking elements (4, 5) are identical components.

8. Shifting device in accordance with one of the above claims,

characterized in that

the said adjusting member (6) is an electromagnet with a said armature (6.3), which can be extended from its said housing (6.1) on both sides in the axial direction and is pretensioned by means of a said spring (6.2).

9. Shifting device in accordance with claim 8,

characterized in that

the said electromagnet (6) has a said armature (6.3) extended on one side in the currentless state, so that the said locking member (5) and the said locking element (7) engage each other in shift position "P" of the shifting device.

10. Shifting device in accordance with one of the above claims,

characterized in that

the shifting device as a whole has a modular design in the manner of a modular system.

